

What is claimed is:

1. An access method for the variable power adjustment in the code division multiple access mobile communication system, the said method is based on the base station and the user equipment, wherein, the acquisition information is obtained by the base station through receiving on the up link the prefix of the physical random access channel, the access prefix of the physical common packet channel and the conflict detection prefix and evaluating the quality, respectively; the precise control of the transmission power of the subsequent message section of the physical random access channel, conflict detection prefix of the physical common packet channel, and the power control prefix, the message section are obtained based on the quality evaluation value; the control indication of the said precise control is transmitted via the down link acquisition indication channel, access prefix acquisition indication channel, and conflict detection/channel assignment indication channel; and after receiving the said power control indication by the user equipment, the subsequent message section of the physical random access channel, conflict detection prefix of the physical common packet channel, and the power control prefix, the message section are transmitted by using a value among a plurality of power bias values.

2. An access method for the variable power adjustment in the code division multiple access mobile communication system as Claim 1, wherein, the format of the acquisition indication channel and access prefix acquisition indication channel having the said precise control indication is:

$$a_{2k} = \sum_{s=0}^{15} AI_{1,s} P_s(k)$$

$$a_{2k+1} = \sum_{s=0}^{15} AI_{2,s} P_s(k), k = 0, 1 \dots 15;$$

wherein,  $P_s(k)$  is a prefix characteristic code, the values of  $AI_1$  and  $AI_2$  can be taken as 0, 1, and -1, nine control indications can be produced by combining  $AI_1$  and  $AI_2$ .

3. An access method for the variable power adjustment in the code division multiple access mobile communication system as Claim 1, wherein, the format of the said conflict detection/channel assignment indication channel is:

$$a_{2l} = \sum_{i=0}^{15} CDI_{i,1} P_{Si}(l) + \sum_{k=0}^{15} CAI_{k,1} P_{Sk}(l)$$

$$a_{2l+1} = \sum_{i=0}^{15} CDI_{i,2} P_{Si}(l) + \sum_{k=0}^{15} CAI_{k,2} P_{Sk}(l), l = 0, 1, \dots, 15;$$

wherein,

$CDI_1$ ,  $CAI_2$ , can be taken as 0, 1, and -1;

the definitions of  $T_1$ ,  $T_0$ , and  $T_{-1}$  are as follows:

$$T_1 = \{(1, 1), (1, 0), (0, 1)\};$$

$$T_0 = \{(0, 0), (1, -1), (-1, 1)\};$$

$$T_{-1} = \{(-1, -1), (-1, 0), (0, -1)\}.$$

4. An access method for the variable power adjustment in the code division multiple access mobile communication system as Claim 1, wherein, in the power adjustment of the messages of the said physical random access channel,

when the acquisition indications of the received down link acquisition indication channel are (0, 0), (1, -1), (-1, 1), then the prefixes will be transmitted by using continuously the power bias  $\Delta P_0$ ;

when (0, -1), (-1, 0), (-1, -1) are received, then the access will be exited and reported to the upper layer;

when (1, 1) is received, then the messages will be transmitted by using the power bias  $\Delta P_{p-m}$ ;

when (1, 0) is received, then the messages will be transmitted by using the power bias  $\Delta P_{p-m} + \Delta P_1$ ;

when (0, 1) is received, then the messages will be transmitted by using the power bias  $(\Delta P_{p-m} + 2 * \Delta P_1)$ .

5. An access method for the variable power adjustment in the code division multiple access mobile communication system as Claim 1, wherein, after the down link access prefix acquisition indication channel is received by the said physical

common packet channel, when the access prefix acquisition indications received by the user equipment on the down link are (0, 0), (1, -1), (-1, 1), then the access prefixes will be transmitted by using continuously the power bias  $\Delta P_0$ ;

when (0, -1), (-1, 0), (-1, -1) are received, then the access will be exited and reported to the upper layer;

when (1, 1) is received, then the messages will be transmitted by using the same power bias;

when (1, 0) is received, then the messages will be transmitted by using the power bias  $\Delta P_1$ ;

when (0, 1) is received, then the messages will be transmitted by using the power bias ( $2 * \Delta P_1$ ).

6. An access method for the variable power adjustment in the code division multiple access mobile communication system as Claim 1, wherein, after the indications of the transmission power bias indicated by the conflict detection/channel assignment indication channel are received by the said physical common packet channel, if it is in  $T_0$  set, then the access procedure will be exited; if those in  $T_1$  or  $T_{-1}$  set are received, then an acquisition will be indicated, and the power biases of the subsequent power control prefixes and the messages will be determined by the specific values of  $T_1$  or  $T_{-1}$ ; when the received indication is (1, 1) or (-1, -1), then the power control prefixes and messages will be transmitted by using the power bias  $\Delta P_{p-m}$ ; if the received indication is (1, 0) or (-1, 0), then the power control prefixes and messages will be transmitted by using the power bias ( $\Delta P_{p-m} + \Delta P_1$ ); and if the received indication is (0, 1) or (0, -1), then the power control prefixes and messages will be transmitted by using the power bias ( $\Delta P_{p-m} + 2 * \Delta P_1$ ).